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DATE MAILED: 11/17/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/910,903	07/24/2001	Vittorio Fossati	Q65520	3372
7590 11/17/2004			EXAMINER	
SUGHRUE, MION, ZINN,			CONTEE, JOY KIMBERLY	
MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20037-3213			2686	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/910,903	FOSSATI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Joy K Contee	2686			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period who Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	16(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status	•				
1) Responsive to communication(s) filed on 30 Ju	ne 2004.				
2a) ☐ This action is FINAL . 2b) ☒ This	☐ This action is FINAL . 2b) ☑ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the construction Replacement drawing sheet(s) including the corrections.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119		*,			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Remarks, filed June 30,2004, with respect to the rejection(s)of claim(s) 1,7,9 and 10 under 35 USC 102(b) using Suonvieri (US 5,831,974) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of newly discovered Schillaci et al., U.S. Patent No.5,703,929.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1,3-5,7,9,10,11 and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Schillaci et al. (U.S. Patent No. 5,703,929.

Regarding claim 1, Schillaci discloses a method for the management of telecommunications network elements, comprising:

management functions of said network elements through a management system (i.e., reads on test system, DATU and test head 14) located at said network elements (i.e., reads on remote telephone facility, Central Office or service site) or in operating centers (col. 3,line 63 to col. 4,line 14 and see Fig. 1),

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wherein it is provided an additional management function of said network elements through one or more terminals placed remotely (i.e., reads on portable test equipment, computer unit 10) and simulating the functions (i.e., reads on computer unit taking raw data from test head and processing in accordance with the onboard test or analysis program, DATU) of said terminal located at said network elements or in operating centers (col. 3, lines 25-45 and line 63 to col. 4, line 14 and see Fig. 1).

Regarding claim 3, Schillaci discloses a method according to claim 1. Suonvieri as modified by LaRosa discloses the limitations to claim 2, LaRosa further discloses wherein said additional management function of network elements through one or more terminals placed remotely is performed by a software module cooperating with other software modules, which form said management system, located in said network elements, and performs the functions of:

management of the bidirectional communication protocol between said remotely placed terminals and said management system (col. 6,lines 45-67 and col. 13,line 66 to col. 14, line 12);

management of said network elements by said remotely placed terminals (col. 13,line 66 to col. 14, line 12).

At the time of the invention it would have been obvious to one of ordinary skill in the art to modify Suonvieri to include management of said bi-directional communications for the purpose of monitoring wireless extension activities using software modules for easy interface.

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Regarding claim 4, Suonvieri as modified by LaRosa discloses a method according to claim 3. LaRosa further discloses wherein said software module is integrated with said other software modules (i.e., reads on applications interfacing with certain modules) in said network elements (col. 9,lines 46-50).

At the time of the invention it would have been obvious to one of ordinary skill in the art to modify Suonvieri to include integrated software modules for the purpose allowing different modules to work together in network management.

Regarding claim 5, Suonvieri as modified by LaRosa discloses a method according to claim 3, wherein said software module is placed outside said network elements in a suitable apparatus (i.e., reads on wireless control program subsystem running on computer) (see LaRosa, col. 2, lines 55-57).

Regarding claim 7, Schillaci further discloses a device for the management of telecommunications network elements, comprising a management system, for said network elements, and terminals (reads on DATU, test head 14 and computer unit 10) located at said network elements or in operating centers, wherein it further comprises circuitry for the implementation of the method as in claim 1 (col. 3,line 63 to col. 4,line 14 and see Fig. 1).

Regarding claim 9, Schillaci also discloses a telecommunications network (reads on telephone network) comprising a device according to claim 7 (col.2lines 47-59 and col. 3,line 63 to col. 4,line 14 and see Fig. 1).

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Regarding claim 10, Schillaci discloses a telecommunications network element (reads on Central Office or service site) comprising a device as in claim 7 (col. 2iklnes 47-59 and col. 3,line 63 to col. 4,line 14 and see Fig. 1).

Regarding claim 11, Schillaci discloses a computer program comprising an inherent encoder (i.e., said medium is used to load wireless control program subsystem, wherein computer executes various modules of program by control of internal microprocessor) adapted to carry out all the steps of claim 3 when said program is run on a computer (col. 4,lines 1-20)).

Regarding claim 12, Schillaci discloses computer-readable medium (e.g., plug-in card) having a program recorded thereon, said computer-readable medium comprising an inherent encoder (i.e., said medium is used to load wireless control program subsystem, wherein computer executes various modules of program by control of internal microprocessor) adapted to carry out all the steps of claim 3 when said program is run on a computer (col. 2,lines 6-25).

Regarding claims 13 and 14, Schillaci discloses a device for managing telecommunications network elements, comprising:

at least one network element (reads on Central Office or service site) (col. 3,line 63 to col. 4, line 13 see Fig. 1);

at least one local terminal (reads on DATU or test head 14) located at said at least one network element (col. 3,line 63 to col. 4, line 13 see Fig. 1);

at least one remote terminal (portable test equipment, computer unit 10, see Fig. 1)(col.4,lines 1-7); and

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a management system (for said at least one network element said at least one local terminal and said at least one remote terminal (col. 3,lines 1-9 and line 63 to col. 4,line 7),

wherein the device further comprises circuitry for the implementation of a method, comprising:

performing at least first and second management functions (reads on (1) testing via DATU located at the remote telephone facility or Central Office and (2) command test system from portable equipment) on said at least one network element with said management system (col. 3,line 63 to col. 4, line 13 see Fig. 1);

performing said first management functions of at least one network element through said management system and said at least one local terminal (DATU or test head 14) located at said at least one network element (col. 7,line 60 to col. 8,line 11); and

performing said second management functions of said at least one network element through said at least one remote terminal simulating said first management functions of said at least one local terminal (col. 7,lines 16-25).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 2 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schillaci, in view of LaRosa et al. (LaRosa), U.S. Patent No. 6,628,965,previously used.

Regarding claim 2, Schillaci discloses a method according to claim 1, but fails to disclose wherein said remotely placed terminals comprise mobile terminals connected to said management system through one or more networks, for instance GSM and Internet, and using WAP or UMTS communication protocols.

In a similar field of endeavor, LaRosa discloses wherein said remotely placed terminals comprise mobile terminals (e.g., palm-based PCs, PDAs) connected to said management system (i.e., reads on monitor module 39, see Fig. 4) through one or more networks, for instance GSM and Internet, and using WAP (i.e., reads on middleware) or UMTS communication protocols (col. 9, line 45 to col. 10, line 4 and col. 14, lines 8-12).

At the time of the invention it would have been obvious to one of ordinary skill in the art to modify Schillaci to include remote terminals connected to a wireless protocol such as Internet and using middleware (i.e., WAP) for the purpose of allowing the user an interface to operate and manage a telecommunications system.

Regarding claim 8, Schillaci discloses a remote terminal comprising an interface for {cooperating} with the device of claim 7, but fails to discloses an interface for cooperating with the through WAP or UMTS communication protocols, for the implementation of the method as in claim 1.

In a similar field of endeavor, LaRosa discloses an interface (i.e., reads on applications 5, see Fig. 1) for cooperating with the device (i.e., monitor module 39, see Fig. 4) through WAP or UMTS communication protocols, for the implementation of the

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method as in claim 1 (col. 9, line 60 to col. 10, line 4 and col. 13, line 66 to col. 14, line 12).

At the time of the invention it would have been obvious to one of ordinary skill in the art to modify Schillaci to include remote terminals connected to a wireless protocol such as Internet and using middleware (i.e., WAP) for the purpose of allowing the user an interface to operate and manage a telecommunications system.

6. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Schillaci, in view of Barker et al., U.S. Patent No. 6,363,421,previously used.

Regarding claim 6, Schillaci, discloses a method according to claim 3. Schillaci fails to explicitly disclose wherein said software module, for said function of carrying out the management of said network elements by said remotely placed terminals, carries out the following operational steps:

in a first step it is waiting for a request from bi-directional communication protocol management function between said remotely placed terminals and said management system;

in a second and third steps, through communication with said other software module, it carries out a conversion of the request from said first step into one or more requests for said other modules for the management of the request itself;

in a fourth step it manages responses to said requests coming from said other software modules, by repeating said third and fourth steps up to the exhaustion thereof;

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in a fifth step it creates a file containing information suitable for creating response visual displays on said remotely placed terminals;

in a sixth step it sends said file to said bi-directional communication protocol management function between said remotely placed terminals and said management system and then returns to said first step.

In a similar field of endeavor Barker discloses wherein said software module, for said function of carrying out the management of said network elements by said remotely placed terminals, carries out the following operational steps:

in a first step it is waiting for a request from bi-directional communication protocol (i.e., reads on SNMP) management function between said remotely placed terminals and said management system (i.e., reads on SNMP retry mechanism) (col. 21,lines 1-24);

in a second and third steps, through communication with said other software module, it carries out a conversion of the request from said first step into one or more requests for said other modules for the management of the request itself (i.e., reads on trap receipt and delivery) (col. 21,lines 25-45);

in a fourth step it manages responses to said requests coming from said other software modules, by repeating said third and fourth steps up to the exhaustion thereof (i.e., reads on Client Command Request/Response) (col. 22,lines 45-59);

in a fifth step it creates a file containing information suitable for creating response visual displays on said remotely placed terminals (col. 4, lines 43-55);

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in a sixth step it sends said file to said bi-directional communication protocol (i.e., reads on SNMP) management function between said remotely placed terminals and said management system and then returns to said first step (col. 4,lines 37-55).

At the time of the invention it would have been obvious to one of ordinary skill in the art to modify Schillaci to include a SNMP type client request and response application for the purpose of an alternative means of exchanging information necessary for system management.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Orosz, U.S. Patent No. 6,144,852, discloses a remote office administrative and maintenance system for cell sites in a wireless telecommunication network.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joy K Contee whose telephone number is 703-308-0149. The examiner can normally be reached on M (alternating), T & Th, 5:30 a.m. to 2:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on 703-305-4379. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JC

November 4,2004